

Nalco Docket No. 7777
Customer No. 00049459

REMARKS

Claim 1 and claim 17 have been amended. No new matter has been added.

Dunlap: 35 U.S.C. § 102(b) and 35 U.S.C. § 103(a)

35 U.S.C. §102(b)

Claims 1-2, 12, 17-20, and 22 have been rejected under 35 U.S.C. § 102(b) as anticipated by Dunlap (U.S. Patent No. 3,055,496).

Applicants respectfully traverse the rejection.

Dunlap discloses an apparatus for unifying a paper sheet already formed by compacting the paper sheet and impregnating the paper sheet. Dunlap shows an apparatus containing a heated metal drum having a smooth, inelastic substantially unyieldable surface, a nip roll, a relatively thick continuous rubber compacting belt passing over the nip roll, a heated drum, and water spray nozzles positioned underside and outside the belt. (See columns 7-9).

Claim 1 and claim 17, as amended, requires a chemical shower placed proximate to the face-side roll in a press section prior to a dryer section and on the same side of the face-side roll.

A 102(b) based rejection requires that the prior art teach, inherently or expressly, each element of the claimed invention. Dunlap does not teach "a chemical shower placed proximate to the face-side roll in a press section prior to a dryer section and on the same side of the face-side roll." More specifically, Dunlap's roll 52 is in a dryer section and not the press section and therefore the present invention is distinguishable from the prior art.

Therefore, Applicants request that the rejection of claim 1 and claim 17, as well as claims 2, 12, 17-20, and 22, which depend upon either of claim 1 or claim 17, be removed and passed to allowance.

35 U.S.C. §103

Claims 1-2, and 12 have been rejected under 35 U.S.C. §103(a) as obvious over Dunlap (U.S. Patent No. 3,055,496).

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Dunlap discloses an apparatus for unifying a paper sheet already formed by compacting the paper sheet and impregnating the paper sheet. Dunlap shows an apparatus containing a heated metal drum having a smooth, inelastic substantially unyieldable surface, a nip roll, a relatively thick continuous rubber compacting belt passing over the nip roll, a heated drum, water spray nozzles positioned underside and outside the belt. (See columns 7-9).

Claim 1 and claim 17, as amended, requires a chemical shower placed proximate to the face-side roll in a press section prior to a dryer section and on the same side of the face-side roll.

A 103(a) based rejection requires that all elements of the claimed invention are taught or suggested by the prior art. Dunlap does not teach or suggest "a chemical shower placed proximate to the face-side roll in a press section prior to a dryer section and on the same side of the face-side roll." More specifically, Dunlap's roll 52 is in a dryer section and not the press section and therefore the present invention is distinguishable from the prior art.

Therefore, Applicants request that the rejection of claim 1 and claim 17, as well as claims 2, 12, 17-20, and 22, which depend upon either of claim 1 or claim 17, be removed and passed to allowance.

Dunlap in view of Trokhan: 35 U.S.C. § 103 (a)

Claims 3-11 and 13-16, and 21 have been rejected under 35 U.S.C. § 103 (a) as being unpatentable over Dunlap (U.S. Patent No. 5,073,235) in view of Trokhan (U.S. Patent No. 5,073,235).

Applicants respectfully traverse the Examiner's rejection.

Dunlap discloses an apparatus for unifying a paper sheet already formed by compacting the paper sheet and impregnating the paper sheet. Dunlap shows an apparatus containing a heated metal drum having a smooth, inelastic substantially unyieldable surface, a nip roll, a relatively thick continuous rubber compacting belt passing over the nip roll, a heated drum, water spray nozzles positioned underside and outside the belt. (See columns 7-9).

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Trokhan discloses a process for improving the life of papermaking belts containing a cured photosensitive resin. Specially, Trokhan describes how the mechanical application of chemicals to a papermaking belt surface can increase the life of a papermaking belt that comes in contact with a paper web. Trokhan teaches that the chemical can be applied to the surface of a papermaking belt surface that comes in contact with a paper web, preferably at the point when the belt is temporarily not carrying a paper web. In addition, Trokhan also discloses the use of belt cleaning showers that serve to clean the papermaking belt of any paper fines, adhesives, etc.... Trokhan further teaches that on the papermaking belt, the embryonic/paper web will be subsequently deflected, rearranged, and further dewatered. The paper-web contacting surface of the papermaking belt contains a plurality of conduits making it not impermeable. Trokhan also discloses that there are vacuum sources along the papermaking belts inner or unexposed surface, which assist in dewatering a paper sheet.

Claims 3-11 and 13-16, and 21 require a belt conditioning apparatus containing an impermeable surface and a chemical shower placed proximate to the face-side roll in a press section prior to a dryer section and on the same side of the face-side roll.

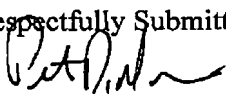
A 103(a) based rejection requires that there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to combine the references teachings. Because Dunlap deals with impermeable belts and Trokhan deals with permeable belts, one of ordinary skill in the art would not be motivated to combine the referenced teachings. Therefore, Applicants request that the rejection of claims 3-11 and 13-16, and 21 be removed and passed to allowance.

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CONCLUSION

Applicants respectfully assert that all pending claims in this application are in condition for allowance. Early notice to this effect is earnestly solicited.

Respectfully Submitted,



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